

A woman with blonde hair, wearing a red short-sleeved shirt and a white knee-length skirt, is walking on a cobblestone street. She is pointing her right arm towards a circular stone border on the ground. The street is made of reddish-brown cobblestones, and the border is made of larger, lighter-colored stones. The scene is brightly lit, suggesting a sunny day.

SIEMENS

Completely safe

Sinteso – the new dimension in fire protection

Answers for infrastructure.



Protection of people and assets, reliable fire detection – with Sinteso

Sinteso™ is the result of Siemens' decades of accumulated fire protection expertise. This expertise supports you throughout the life cycle of your system, starting with a thorough risk analysis and extending from fast, reliable service all the way to individual extension and modernization solutions for existing fire detection systems.

Thanks to modern technology, Sinteso provides the best possible protection against all fire hazards. It incorporates innovative safety functions, including **ASAtechnology™** for reliable and deception-free signal interpretation, carbon monoxide detection, degrade mode and standby function. Full network capability and extendability through a cluster-backbone network ensure the highest degree of investment protection.

Everything you need, from simple to complex

From detectors to control panels – it is all one family

Safety is a deep-rooted, fundamental need. That's why solutions that reliably protect people, assets and processes against fire, smoke and carbon monoxide play such a crucial role: Sinteso comprises a comprehensive range of products from fire detectors with maximum reliability and immunity to deception, a complete range of peripheral devices, control panels, terminals and floor repeaters.

A forward-looking solution for every need

Buildings are expanded, and the use of a room can change – so it's a good thing that Sinteso is flexible and scalable. For example, S-LINE fire detectors can be adapted to new room uses simply by changing the parameter set. The system can be extended during ongoing operation, and the control panel networks can be adapted to any structural surroundings by combining multiple clusters (FCnet/SAFEDLINK) with a backbone (FCnet/LAN).

From fire detection to overall danger management

In addition to fire risk, there are other situations when you must protect your personnel, customers, buildings and assets. Sinteso is designed so that it can be integrated in a danger management system from Siemens. In this way, security personnel can operate Sinteso together with intrusion detection, access control and other integrated systems from a central point.

Flexible extension or modernization – with Sinteso Move

With the Sinteso Move extension and modernization solution, you can extend your existing fire detection system from Siemens step by step with Sinteso detectors and control panels, or switch fully to the new Sinteso technology – depending on your needs and as your budget allows. We will also support you with attractive financing models.

Optimal life safety – through innovations

High availability, sophisticated detection and reliable alarming – Sinteso's innovative functions offer a unique level of protection. The degrade mode and the standby function of the control panels ensure system availability at all times. Redundant sensors and monitoring of CO concentration provide increased detection reliability. Reliable alarming with Sinteso means: alarm sounders and floor repeater terminals remain operational even in the event of power outage or short circuit. In addition, fires are verifiable by video. Clear voice messages ensure safe evacuation.

Award for Sinteso

ASAttechnology made the difference: market research institute Frost & Sullivan awarded Sinteso the "2010 European Fire Detection Equipment Market Product Line Award."

Highlights

- Customized safety against all types of fire
- Reliability of the most experienced solution provider in the field of fire safety
- Open-ended solution through simple upgrades and extendability
- Dependable fire identification with all functions for fire, smoke, heat and CO detection
- Solutions and services for all applications, whether simple or complex, large or small
- Comprehensive protection through communication with other safety systems
- Efficient extension and modernization possibilities for existing fire detection systems



Providing
fire protection
that sets the
standards –
the control
panels.



Everything in view – and under control

The requirements regarding fire control panels vary depending on the size and extend of buildings. That is why Sintesio offers various FCnet stations, all of which can be networked.

Control panels and terminals for any application

Sintesio offers networkable fire control panels for various-sized applications – supplemented by fire terminals for remote operation. They show the same information on their displays as the control panels. This is ideal for adding further fire terminals in different buildings that are some distance away from the control panels, to enable fast, safe intervention everywhere in the event of an incident or alarm.

Ease of handling guarantees correct responses

In the event of an alarm there are just a few seconds to make the right decision. That is why Sintesio control panels and terminals feature simple operation and clearly show all important information. They have clear function key assignments, comprehensive scroll lists and user-friendly menu navigation. Intervention texts with instructions serve to facilitate correct responses.

Comprehensive networking for higher safety

Since all Sintesio stations, i.e. control panels and terminals, are networkable, they can be networked via clusters. Depending on the configuration, a cluster can have up to 32 stations. Numerous detectors and peripheral devices can be connected to each control panel via FDnet; for example, up to 5,000 devices per FC2080.

Sintesio is also the first fire detection system to use EN 54-approved industrial LAN technology, enabling the networking of multiple clusters (with up to 16 stations each) by fiber-optic backbone. This means that the system can have up to 64 fire control panels or terminals and thus protect also large facilities. The large number of individual clusters make it possible to adapt the overall system to structural requirements very quickly.



Fast system availability through auto configuration

For simple applications, the auto configuration function of the control panels is all you need to activate the Sinteso fire detection system. For more complex installations, each network station can be configured and easily controlled via a central access point. This can also be done via remote access, which ensures reliable on-site service and fast troubleshooting.

Everything on the screen, everything under control – in every situation

If a control panel should fail due to a fire or as a result of construction work, the control panel's degrade mode is automatically activated, ensuring that alarm messages of connected FDnet devices are forwarded via the FCnet all the same. This could be to a danger management station from Siemens or to other programmed control panels or fire terminals. These then automatically take over the display and user interface functions of the failed control panel.

Sinteso can be integrated into a danger management system from Siemens. In case connection to this management station is lost, you can still operate the fire detection system from a central location – via a fire terminal programmed as a standby operating unit or a control panel.

Fast system configuration optimizes safety

Because different requirements are placed on the system depending on the time of operation, Sinteso permits rapid switching between the "manned" and "unmanned" modes – an ideal way to automatically adapt alarm signaling, intervention sequences and detector sensitivity to the specific situation. For instance, detector sensitivity can be set to a higher level when no one is present.

Extension of existing fire detection systems

Existing fire detection systems can be extended with the extendable FC2030 and FC2060 control panels and the modular FC2080 control panel. These can replace many existing non-networked individual panels if they lack the capacity for additional detectors.

Additional detector lines can then be connected to the chosen Sinteso control panel. The corresponding line cards can be used to connect existing addressable and collective detector lines. The Sinteso control panel can also be networked with other Sinteso control panels.

Highlights

- Control panels for any application – large, small, simple, complex, or distributed buildings
- Safe reactions also under stress thanks to consistent menu-guided operation
- Networking of up to 64 stations to protect very large applications
- Remote system operation possible – via a fire terminal or floor repeater terminal, e.g. with the security staff
- Safety in the event of a failure of a control panel or the danger management system through standby functionality



Providing fire protection that sets the standards – the detectors.



Reliable detection – free from deception

Whether smoke, heat, or neural fire detector – Sinteso S-LINE detectors give you a major safety advantage: their reliability and immunity to deception let you react to situations earlier.

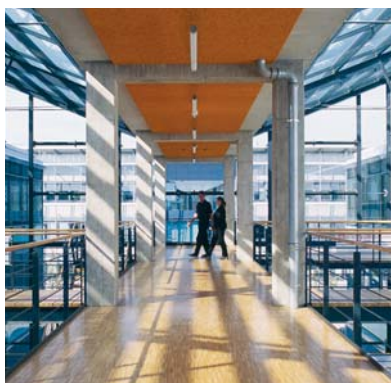
S-LINE – extreme vigilance for early intervention

The intelligent signal processing of the Sinteso S-LINE detectors almost entirely eliminates misinterpretations of deceptive phenomena – whether steam, dust, exhaust gases, or electromagnetic disturbances. Real-time interpretation and the dynamic influence of the algorithms enable a very quick and highly accurate assessment of whether a fire is developing. Even multiple detectors can be included in the alarm decision if needed.

Individual setting – maximum protection in every environment

ASAtchnology (Advanced Signal Analysis) means that safety can be customized to every environment. The ASA parameter sets are adjusted precisely to the types of fire and deceptive phenomena expected. ASA parameter sets can be switched according to the time or process, when for example, buildings are deserted at night or when the deceptive phenomena are changing.

Always the right detector with Sinteso – whether in harsh environments with frequent deceptive phenomena, in standard environments with moderate deceptive phenomena or in clean environments, where data and personal protection are the top priorities.





Genuine Alarm Guarantee – thanks to *ASAtechnology*

Every company has to prevent damages and downtimes that result from false alarms. Thanks to innovative sensor technology and *ASAtechnology*, the S-LINE offers unsurpassed detection reliability for all types of fire together with immunity to deception. We stand by it with our Genuine Alarm Guarantee.

Compatibility – for extension and modernization

With Sinteso Move and the S-LINE multi-protocol series, existing systems can be easily extended and old detectors from Siemens can be replaced without new cabling. The innovative sensor technology and measuring chamber thus also increase the safety of systems that are already in place.

Double protection – from fire and toxic gases

As the FDOOTC241 detects and intelligently evaluates the three fire criteria smoke, heat and combustion gas, it reacts very early to any fires that generate carbon monoxide (CO), such as mattress fires. It also detects ambient CO concentrations and thus reduces the risk of carbon monoxide poisoning in areas with a high level of exhaust gases or process- and production-related CO generation.

Comprehensive safety – including faster, more reliable CO detection

Sophisticated detection with Sinteso means: the world's highest detection reliability and immunity to deception through *ASAtechnology* and multi-sensor detectors. Reliable detection of ambient CO concentrations. Highest detector availability through the use of redundant sensors. And detectors for any requirement.

High reliability – in all standard applications

Whether in hotels, schools, or office buildings, Sinteso C-LINE fire detectors are the first choice in normal environments where only occasional deceptive phenomena occur. Their reliable detection behavior is based on the newly developed detection algorithms (DA). They convert the signals recorded by a sensor into mathematical gradients and then evaluate them according to preset values.

S-LINE and C-LINE – a smart combination

Many buildings have mixed safety needs, for example C-LINE detectors in offices and S-LINE detectors for cafeterias, due to the higher potential for deceptive phenomena there. Both detector types can be combined on the same FDnet loop. If the use of a building or room changes, C-LINE detectors can be replaced with S-LINE detectors at any time, without new cabling.

Highlights

- Reliable and economical fire detection
- Genuine Alarm Guarantee based on highest detection reliability and immunity to deception thanks to *ASAtechnology*
- Fast adjustment to environmental conditions according to time or process
- Excellent detection response to all types of fire
- Simple extension and modernization of existing systems using multi-protocol detectors and Sinteso Move
- Use appropriate detection through the combination of C-LINE and S-LINE fire detectors on one loop

Providing fire protection that sets the standards – peripheral devices.



Sharpest perception, quick reaction

Sintesio detectors and peripheral devices have integrated turbo isolators. They ensure that alarms and messages reach the control panel without long delays even if a line is interrupted after a short circuit – and that alarming occurs via alarm sounders, practically without interruption and synchronized.

A network that supplies everything

The FDnet is a multifunctional bus system for fast, reliable communication between the FDnet devices, such as fire detectors, alarms and video fire controllers and the fire control panel. A special advantage is its use of this communication circuit to simultaneously supply the devices with power. That saves cable. In addition, it's also easy to incorporate existing installations and cables. An FDnet loop can incorporate up to 252 FDnet devices.

Simple communication, confident response – at low cost

With the FT2010 floor repeater terminal and FT2011 floor repeater display, Sintesio also delivers information simply and clearly on site, for example directly on a hospital ward. While alarms, faults and shutdowns can be read clearly via the floor repeater display, the floor repeater terminal also allows events to be acknowledged and reset.

The placement on the FDnet enhances safety: Both devices also function reliably if a line is interrupted or a short circuit occurs. In addition, the floor repeater terminals can be programmed so they display alarms from the entire system.

The FT2010 floor repeater terminal – for reading and operating alarms and messages; operation is possible with a key only.





Simply play it safe – by video

Reliable verification, identification and response: The video fire controller provides increased security, for example in the case of vandalism. In the event of an alarm, it enables event verification as well as a better assessment of the situation using live images and provides detailed information for further action – without requiring personnel to enter the danger area. Thanks to the recorded film material, the video fire controller supports event analysis at a later time, for example in order to visually verify or to identify arson, intentional triggering of false alarms or persons.

Everything integrated – even the extinguishing

Extinguishing control equipment can be integrated into the FDnet, such as the XC10 extinguishing control unit. In an emergency, as a stand-alone unit it independently triggers automated extinguishing in its protection area and transmits all relevant data to the connected Sinteso fire control panel. Based on its high flexibility, the XC10 can be combined with all types of automated extinguishing systems.

See and hear alarms everywhere

Sinteso alarm sounders ensure that signals are generated loudly and clearly in halls, rooms, corridors and stairways when there is a fire. Depending on the device model, the alarm is signaled acoustically or both acoustically and optically at the same time. For example, in areas with loud ambient noise or hearing-impaired persons, the FDS229 alarm sounder with beacon is the right choice: In an emergency it generates both an optical signal (red or yellow) and an acoustic signal.

Automatic display and action in an emergency

Additional peripheral devices provide functions such as status monitoring or on-site control of fire doors, flaps, elevators, ventilation systems, etc. in the event of a fire. Other devices permit the monitored connection of conventional detector lines and alarm signaling devices or the control of LEDs on a display.

Highlights

- Interruption-free alarming thanks to loop installation and turbo isolators
- Economical through supply of all peripherals by FDnet
- Floor-specific view and operation of messages
- Better event verification and analysis based on recorded monitoring images
- Automated triggering of extinguishing in case of fire, thanks to integratable extinguishing systems in individual zones



With Sinteso Move into a new dimension – for long-term optimal fire protection.



The intelligent move for system extension and modernization

With Sinteso Move, you can extend the life cycle of your existing fire detection system from Siemens. Intelligent extension and modernization solutions using the latest Sinteso technology can be combined with attractive financing options – so you don't have to scrimp on safety.

New perspectives with Sinteso Move

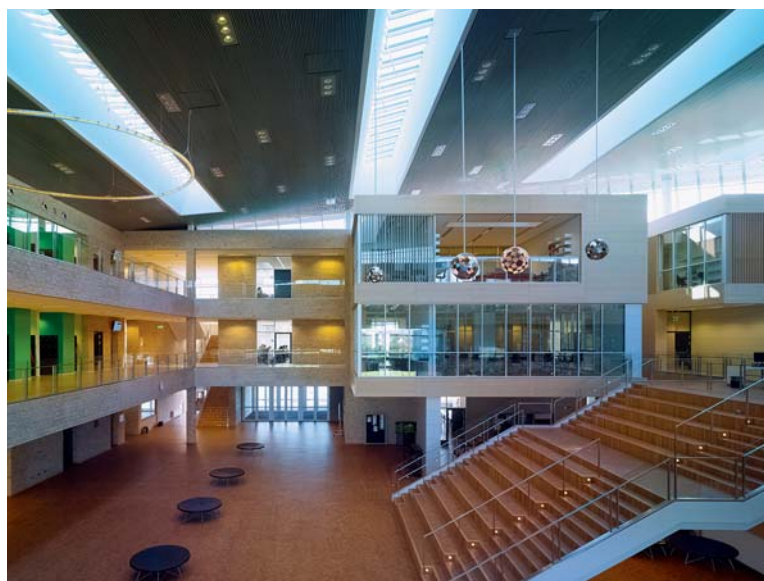
Our Sinteso Move extension and modernization solution is the ideal way to extend or modernize your existing fire detection system with the latest Sinteso fire detection technology. You thus benefit from deception-free and reliable fire detection with **ASAt**technology, innovative safety functions, future-oriented networking capabilities – and better protection for your employees, customers, company and processes.

Investment security – today and tomorrow

Low start-up costs and distributed investments: Due to the step-by-step modernization with Sinteso Move, you can stagger your investments and calculate them better. What's more, your investment stays protected over the long term: Switching to Sinteso, you extend the life cycle of your system – because Sinteso is based on future-safe technology and backed by comprehensive service.

Attractive financing – for intelligent growth

Improve your liquidity and gain additional room for further investments, with our tailored financing solutions. With our leasing and rent-to-own models, you can extend or modernize your system even without an initial investment. You pay only the costs for use and obsolescence of the technology – and you can make use of purchase, return, or extension options as needed. So you don't need to use your credit line at your main bank, you can plan your budget better and you receive different fire protection solutions and financing options.



Flexible system extension – the way you need it

Do you need your fire protection to grow with your company? No problem. Whether you're building another structure, adding an extension, or changing the way you use existing space – with Sinteso Move, you can extend your system exactly as needed.

Sinteso Move offers several ways to extend your system. Depending on the system, you extend it:

- In a smart way, with individual Sinteso Move detectors or additional loops
- Comfortably, with Sinteso Move control panels
- By combining the old and new fire detection systems by networking the Sinteso control panels/clusters with the existing control panel network

Modernization for increased safety

Often, older systems no longer meet the safety requirements currently prescribed for new installations. As time goes by, they also require increasingly intensive maintenance. Additionally, many factors change within your company – whether products, services, or working methods and procedures. These aspects affect your safety needs, which is why your fire detection system requires a timely modernization.

With Sinteso Move, you can modernize your system easily and cost-efficiently, in three phases:

- In the first phase, your detectors are replaced with Sinteso Move detectors, either individually or as a complete loop, for example in the course of a scheduled maintenance call. Old detectors, even ionization smoke detectors, are professionally removed and recycled.
- In the second phase, your network will be modernized – by updating your danger management system and, depending on the fire detection system, also with a network integrator in your control panel cluster.
- In the third and final phase, your fire control panels are replaced with convenient Sinteso control panels. This also gives you the benefits of **ASAt**technology.

Continual operation – with virtually no disruptions

Sinteso Move detectors can be quickly and easily integrated into your system as multiple protocol detectors. Sinteso control panels can also be integrated with minimum interruption and maximum system availability. As a result, your employees, visitors and business processes will be almost entirely unaffected by a system extension or modernization.

Highlights

- Economic modernization in three phases
- Fast device replacement and integration without interfering with operations
- Long-term investment protection through open-ended technology
- Low maintenance needs and high spare parts availability
- Increased safety thanks to deception-free fire detection
- Increased operating comfort due to latest control panel technology

Supporting all
your needs –
from risk analysis
to service.



Plan together – for a long-term relationship

With Sinteso, you get not just the latest technology, but you can also benefit from a wide range of services that maximize the safety of your employees, your company and your system.

Customized services

We offer you a complete service program for your fire protection system as part of Advantage™ Services from Siemens.

We guarantee optimum operation, safety and added value throughout the entire life cycle of your plant. Thanks to the modular service concept, we can tailor the scope and type of services precisely to your needs – around the world, and with consistent quality of service.

Service agreements – individually tailored

We work together with you to determine which service contract you need and define everything in a tailored agreement. A service agreement provides you with many advantages, such as:

- Protection of lives and assets
- Compliance with all rules and regulations
- Prolonging of system lifetime
- Predictability of budget and reduction of avoidable costs
- Prevention of business disruptions and productivity losses
- Peace of mind

Siemens Remote Service – every minute counts

Our Remote Service provides you with the following advantages:

- Faster response time
- Early error detection before larger problems can arise
- Simpler troubleshooting
- Increased system reliability
- Help with system operation

All diagnosis data such as error messages and event logs from your fire detection system are accessed remotely and checked. Proactive system checks allow deviations to be recognized before they can affect system integrity. And fewer failures mean fewer unscheduled interruptions and greater system reliability – which means better fire protection for you.

The established Siemens Remote Service Platform ensures maximum data security. This internationally proven technology from Siemens protects your system against all dangers, from viruses to access by unauthorized persons.



Sophisticated authentication and authorization procedures and modern encryption technologies ensure that only authorized service technicians are granted access to your system.

Sinteso Detector Revision – extends the life of your system

As part of the maintenance program, you can also benefit from our revision service for your fire detectors. The reliability of your fire detection system rises and falls with the condition of the detectors, so we inspect and replace them regularly. As a result, you can use your fire detectors at full capacity for a considerably longer period.

Monitoring centers – a safe bet

Greater safety for your employees, visitors, assets and business processes: If you desire, our monitoring centers will look after your event and fire alarms quickly and competently according to a defined action plan. Either 24 hours a day or just at night – as needed.

Services of experts – use information


Naturally, you also benefit from our expertise: We make our many years of experience and our comprehensive knowledge of fire protection available to you with respect to your applications, for example, and suitable products or country-specific regulations. In addition, we retrain your employees very quickly on Sinteso and provide you with practical tools for system management and operation.

Other possibilities – upon request

We'd be happy to advise you in detail on these and other services related to fire protection and your fire detection system.

Highlights

- Individually agreed services – at consistently high quality around the world
- Greater system reliability – thanks to faster response through Remote Service
- Longer life cycle of the system – based on Detector Revision
- Greater safety for employees, visitors, assets and business processes – through our monitoring centers
- High operational safety – using services of experts such as application experience, operator training, etc.



Safety that
goes further –
throughout your
building.

Look forward – strike a new path

An investment is safe if a solution can grow in every direction. Regardless of whether you want to expand a building or add another floor, change the use, or upgrade your fire protection solution to a higher level of convenience – as a fully scalable and networkable system, Sinteso delivers maximum flexibility.

New horizons via remote operation

As Internet- and network-capable fire control panels, Sinteso control panels offer you a wide variety of control options from a remote workstation. With a standard PC, you can view messages, warnings, alarms or past events, check the system status and open fire doors and more.

Flexible for future extensions

Sinteso permits comprehensive fire monitoring that can be extended at any time: By networking the various control panels and the fire terminal, the fire detection system can be extended to cover subsequently built extensions and buildings. Often, up to 32 control panels and terminals can be networked. The distance between two stations can be up to 2,000 m with repeaters. Fiber-optic cables extend this distance to up to 40 km. And a cluster can be further extended via the Ethernet connection of the control panels.

Using the EN 54-approved industrial LAN technology, Sinteso opens up new possibilities for the growth of your company. Sinteso can be extended to up to 64 control panels or terminals. Via the fiber-optic backbone, multiple clusters can be connected with up to 16 stations each. Each cluster is connected to the backbone via two independent, EN 54-compliant Ethernet switches, which ensures highest system availability.

Beyond the FCnet to a central management system

Sinteso can be conveniently integrated into a danger management system from Siemens. A large, EN 54-compliant Sinteso network can also be integrated into a danger management system from Siemens via your network, requiring one Ethernet switch and an optional security module (firewall).



This means that several FCnet clusters and fire detection systems can be monitored from a central location – clearly and conveniently thanks to the large PC monitor. In addition, messages can be automatically forwarded to security personnel, such as via text message, e-mail or fax. During event handling, stored action descriptions, intervention plans and graphics guide users through pre-defined procedures. Events are archived, which facilitates later analysis.

Trend-setting synergies for fire protection

Integration of Sinteso into a danger management system from Siemens means that security personnel can not only operate the fire detection technology more conveniently, but they can also use other integrated security systems for fire protection. Video surveillance makes it easy to keep an eye on a danger zone. With access control, escape routes can be checked and doors can be opened or closed quickly.

Fire protection means security for the future, too

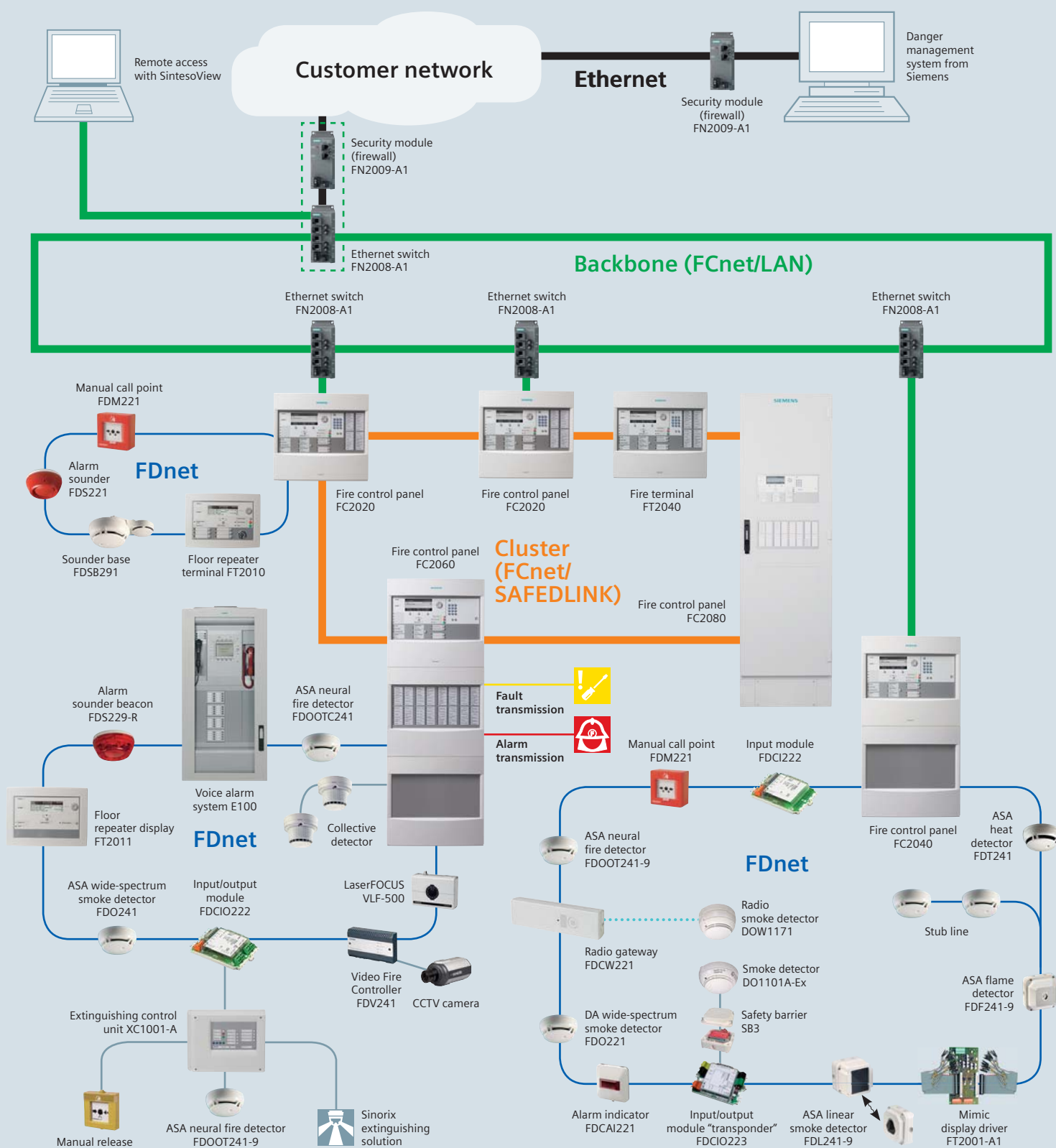
According to a current study, over 70% of companies hit by a major fire were forced to discontinue their business within three years. The most frequently cited reason was the interruption in operations, through which valuable customers were lost. This is a clear reason for improving fire safety ("BRANDAKTUELL" magazine, number 20/05, issued by the trade association for roof-lights and smoke/heat extractors (FVLR)).












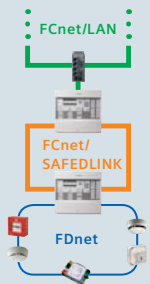
We support you wherever you need us
International solution and service expertise: Thanks to our presence in over 50 countries, you can take advantage of our services wherever you are – in Europe, the United States or Asia. Our dense service network ensures you extremely fast supply and support any time, day or night.

Highlights

- Extendability for future growth – thanks to extensive network capabilities
- Support with system operation and system diagnosis – through remote operation
- Greater transparency and ease of operation – through integration into a danger management system from Siemens
- Better protection – thanks to additional safety functions in combination with other security systems
- Worldwide expertise in solutions and services at a consistently high level – thanks to our presence in over 50 countries
- Extremely fast supply and support any time, day or night – due to our very dense, global service network

Your system for comprehensive fire protection



Fire control panels  <p>Sinteso control panels process all messages generated by the system, triggering alarm signals and complex control processes. The extremely simple user interface with user prompting texts lets you check the system status quickly, either locally or by remote access. Because requirements vary depending on the building and application, there are five different models of control panels: FC2020, FC2030, FC2040, FC2060 and FC2080.</p>	Fire detectors  <p>S-LINE detectors with ASA technology for sophisticated applications – C-LINE detectors with detection algorithms (DA) for standard applications: Both series include an optical, thermal and combined fire detector, the S-LINE also has a multi-sensor fire detector for smoke, heat and CO. Special detectors such as flame detectors and wireless smoke detectors complete this product range.</p>
Module bus cards  <p>Cards for the FC2030, FC2060 and FC2080: MS9i line cards for connecting addressable MS9i detectors and collective line cards for detectors with the collective Siemens standard. Additionally for the FC2060 and FC2080: FDnet line cards can be used to set up additional FDnet loops and I/O cards to connect central inputs and outputs, for example for controlling machines, elevators, or ventilation systems in case of fire.</p>	Video fire controller  <p>In case of an alarm, the video fire controller enables direct assessment of the situation on the basis of live images from a connected surveillance camera – and supports a later analysis of the event with recorded film footage with pre- and post-alarm sequence.</p>
Fire terminals  <p>The FT2040 fire terminal permits remote operation in parallel with the control panels. It can also mirror the display at the control panels anywhere in the entire system with which it communicates via the FCnet.</p>	Alarming devices  <p>There are three alarm sounders for acoustic alarm signaling – the FDS221, the FDSB221 interbase alarm and the FDSB291, which is integrated in the detector base. The FDSB221 interbase alarm and the FDS229 combined sounder strobe provide acoustic and optical alarm signaling.</p>
Floor repeater displays and terminals  <p>Messages from clearly defined monitoring zones, such as nursing stations, can be displayed via the FT2011 floor repeater display with the same event text as displayed at the control panel and even operated with the FT2010 floor repeater terminal. They are placed directly on the FDnet and work without interruption even in the event of an interrupted or short circuit.</p>	XC10 extinguishing control unit  <p>The XC10 extinguishing control unit can be integrated in the FDnet with the FDCIO222 input/output module – all relevant events are routed to the connected Sinteso fire control panel. The extinguishing control unit is already preconfigured in the SintesoWorks engineering tool. This makes it easy to implement extinguishing in compliance with EN 54.</p>
Mimic display driver  <p>The FDnet-powered mimic display driver controls LEDs on a customer-specific display.</p>	Line separator  <p>Line separators are already integrated in all FDnet devices. The FDCL221 and FDCL221-M line separator ensure that multiple stubs do not fail in the event of a short circuit. They are used wherever multiple stubs are branched off from the FDnet in parallel, for example, for taking over radial line wiring from collective systems.</p>
Input/output modules  <p>The FDCI222 input modules are used for status monitoring whereas FDCIO222 input/output modules permit decentralized control of fire doors and flaps. In addition, the transponder FDCIO223 permits the monitored connection of conventional detector lines, alarm signaling devices and devices in explosion-protected zones.</p>	System networks  <p>Sinteso meets a wide spectrum of networking requirements:</p> <ul style="list-style-type: none"> – Depending on the configuration, up to 32 fire control panels and terminals can be networked via FCnet/SAFEDLINK – Innovative networking of multiple clusters (FCnet/SAFEDLINK) via the backbone (FCnet/LAN) to create an EN 54-compliant overall system with up to 64 FCnet stations – Power supply and connection of all detectors and peripheral devices to the control panel via FDnet



Great success stories

Sinteso has proven its reliability and immunity to deception in many reference systems all over the world. Here we present just three of many examples. Take advantage of the Sinteso fire detection system to reliably protect your employees, customers, company and assets.

Sinteso detectors for Westfield London

Westfield London is Europe's largest downtown shopping center – a £1.6 billion project. It combines retail stores, restaurants, cafes, bars and recreational facilities on over 150,000 m² of retail space under one roof – and in total, the complex measures over 186,000 m².

The challenge: Installation of a fire detection and alarm system with maximum reliability and the certainty that no false alarms will be triggered. The aim is to avoid costly interruptions for tenants and disturbances for visitors.

Siemens supplied not only the public address and voice alarm system, but also the fire detection system: 5,000 Sinteso detectors ensure highest safety.

They work on the basis of automatic risk analysis, which has already proven its worth especially in the three-level underground garage of the shopping center – a demanding environment with a constant supply of fumes from fuels and exhaust.

ASA technology gives unparalleled detection reliability throughout Westfield London, backed by the unique Genuine Alarm Guarantee from Siemens.

Sinteso detectors for the Mövenpick Hotel Frankfurt City

The four-star business and conference hotel with 288 modern rooms is situated in the new European Quarter in downtown Frankfurt, Germany.

The challenge: Elimination of the typical knowledge base distinctions between electrical engineering and building automation in favor of a complete package at a more economical price. And a life cycle concept that takes into account the optimization of the technical systems over the entire life cycle of the building.



Whether shopping megacenters, 4-star hotel, or international medical teaching facility – Sinteso sets a new standard in fire protection. It reliably protects employees, visitors and guests, as well as assets and business operations.

To meet this challenge, Siemens put together a “single-source” solution including fire protection, building automation, access control, power supply, installation technology – and the option to assume full responsibility for maintenance and services. An integral part is a fire detection system with 1,200 Sinteso fire detectors and the Genuine Alarm Guarantee from Siemens.

The high detection reliability and speed of the detectors combined with immunity to deception ensures that business, guests and hotel staff will not be disturbed by false alarms at the Mövenpick Hotel Frankfurt City.

Sinteso detectors for the AMTS

The Academy for Medical Training and Simulation (AMTS) on the premises of the Canton Hospital in Lucerne, Switzerland, is a leader in international, medical training and process simulation for locomotor system surgery and emergency medicine. 2,500 m² distributed over four floors house cutting-edge room and teaching facilities for the courses.

The challenge: Absolutely reliable and deception-free fire detection. Protection of sensitive and costly infrastructure in a wide variety of rooms, safety for visitors and employees and uninterrupted training and simulations.

That is why Siemens fitted out the AMTS with a Sinteso fire detection system. 400 Sinteso detectors provide intelligent, economical and reliable fire detection in the facility’s sensitive and business-critical space. In addition, the Sinteso system was seamlessly networked with the comprehensive monitoring system of the Lucerne Canton Hospital.

Sinteso prevents false alarms and the resulting disruptions and operational interruptions – while providing centrally monitored protection at the same time, benefiting the AMTS and its course participants.

Highlights

- Comprehensive fire protection for Westfield London, Europe’s largest indoor shopping center
- Complete solution from fire protection to building automation for the Mövenpick Hotel Frankfurt City
- Deception-free fire detection system for the Academy for Medical Training and Simulation in Lucerne, Switzerland

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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Answers for infrastructure.

Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly

growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.

“We are the preferred partner for energy-efficient, safe and secure buildings and infrastructure.”